

Maricopa County:

Forensic Election Audit



Introduction





Introduction - MC Forensic Audit



Overview



- 2.1M ballots processed by hand
- Over 1,500 people involved
- Over 100,000 hours of time contributed



Introduction - MC Forensic Audit



Security



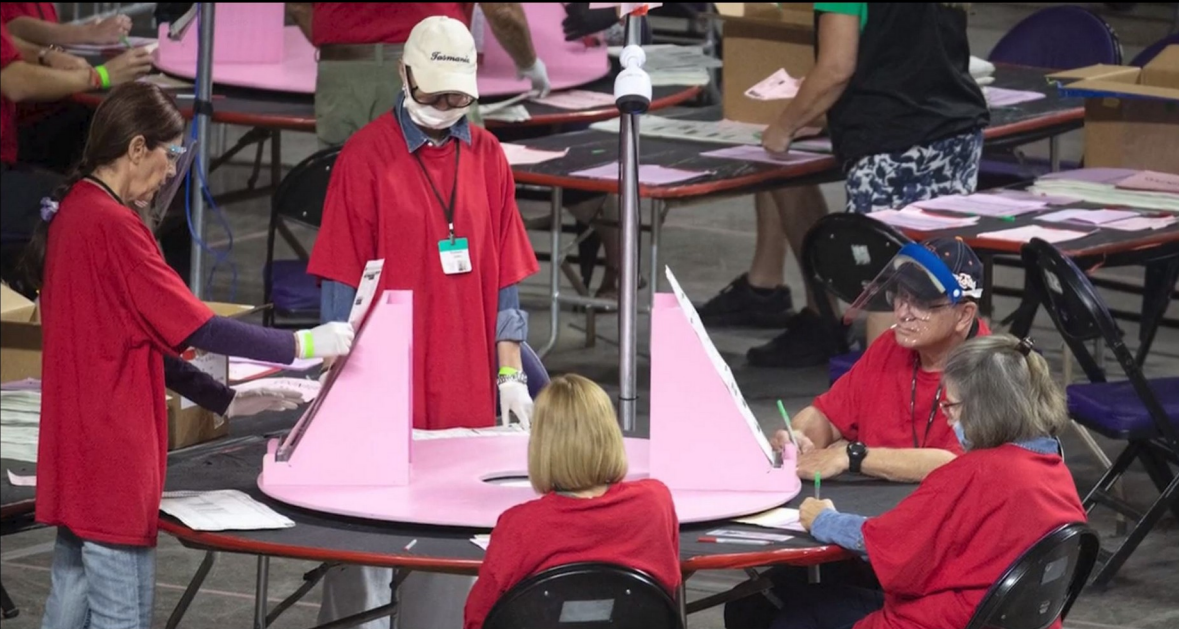
- The perimeter was secured at the coliseum
- COVID checks & access validation
- Ballots & election equipment were secure in corrals
- 24/7 video surveillance & law enforcement guard



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Tallying



- All counters were Maricopa residents who voted in the last election.
- Each person was run through a standard background check.
- All three counters counted “blind” without any talking.
- Roughly every ~50 ballots tallies were compared and needed to agree or be redone.



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Paper Examination (PE)



- High quality DSLR images captured of the front and back of all ballots
- Microscope images captured of key ballot locations
- Over 140TB of data storage for PE alone

Status





Status - MC Forensic Audit

Current Status

- Complete
 - Hand-counting of all federal races
 - Image and microscope capture of all ballots
 - Review & Comparison of Official Results
 - Analysis of the Voter Rolls
- Expected Soon
 - Review of Splunk Logs and Routers via Settlement Agreement terms.
 - Completion of Paper Analysis



Status - MC Forensic Audit

Current Status

- No Longer In Scope
 - Canvasses to confirm voter rolls
 - Removed from scope of work.
 - Review of tabulator configuration to check internet configuration.
 - Hardware tokens never provided by the County.
 - Review of Voter Roll System
 - Systems accessing rolls never provided by the County.
- Review of ICX Devices
 - Systems never provided by the County.
- Review of provisional ballots
 - Provisional Ballots Never Provided by County.
- Review of undeliverable ballots
 - Undeliverable ballots never provided by county.

Ballots & Tallying





Ballots & Tallying - MC Forensic Audit

Ballots & Tallying - Background

- Ballots that are damaged or can't be processed by a tabulator are duplicated.
- Damaged Sent to Duplicates (DSD) are the originals, DUPs the Duplicate.
- There should be one DSD per DUP.
- There should be a unique serial number to match up a DSD to its DUP.
- Duplicate ballots should be stored separately from original ballots.



Ballots & Tallying - MC Forensic Audit

Findings

- Duplicate ballots comingled with original ballots
- Duplicated ballots with incorrect & missing serial numbers
- Duplicates that reuse serial numbers
- More duplicates than original ballots

| BOX ID | Description | Ball TYPE | Serial Count |
|-------------------------------------|------------------------------|-----------|----------------------|
| Duplicate Ballots used Precincts of | Original | President | Original |
| Original Maricopa County Forensic | SD 8 | DSD | DUP294104 |
| Audit - Original Ballots Sent to | Original Large Print Sent | DSD | 26,965 |
| D | Duplication to Duplication 2 | DSD | DUP294104 |
| Maricopa County Forensic | DSD RANDOM SAMPLE | DSD | DUP171329 |
| D | Audit - Duplicate Ballots | DSD | 29,357 |
| 0215 | VIEW 2 | | 215 |
| Original Dan Gable Ballots | DUPBOARD3HAND | DSD | DUP171329 |
| Maricopa County - Reported | 0216 | Biden | DUP171329 Dup |
| Duplicate Ballots | 144 | 99 | 27,869 |
| DUPBOARD3HAND | 0217 | Biden | Board 1 Hand Dup 217 |
| DUPBOARD3HAND | 0218 | Biden | Board 1 Hand Dup 218 |

Findings

- Duplicate ballots comingled with original ballots
- Duplicated ballots with incorrect & missing serial numbers
- Duplicates that reuse serial numbers
- More duplicates than original ballots
 - Extra DUPS favor Trump & Jorgenson
 - Extra DUPS favor McSally

| Description | Damaged Sent to Duplication (DSD) | Duplicate Ballots (DUP) | Expected % To Candidate | % Difference To Candidate |
|--------------------|--|--------------------------------|--------------------------------|----------------------------------|
| Trump | 995,404 | 996,896 | 48% | 58% |
| Biden | 1,040,873 | 1,041,733 | 50% | 33% |
| Jorgenson | 31,591 | 31,580 | 2% | 3% |
| Description | Damaged Sent to Duplication (DSD) | Duplicate Ballots (DUP) | Expected % To Candidate | % Difference To Candidate |
| McSally | 983,662 | 985,100 | 47% | 55% |
| Kelly | 1,064,336 | 1,065,266 | 51% | 36% |



Ballots & Tallying - MC Forensic Audit

Tally Results – (Based on DSD)

| | McSally | Kelly | Write In / Over / Under | Total |
|---|---------|-----------|-------------------------------|------------|
| Maricopa County Forensic Audit | 983,662 | 1,064,336 | 40,398 | 2,088,396* |
| Official Maricopa County Canvass | 984,203 | 1,064,396 | 40,964 | 2,089,563 |
| DELTA | (541) | (60) | (566) | (1,167) |



Ballots & Tallying - MC Forensic Audit

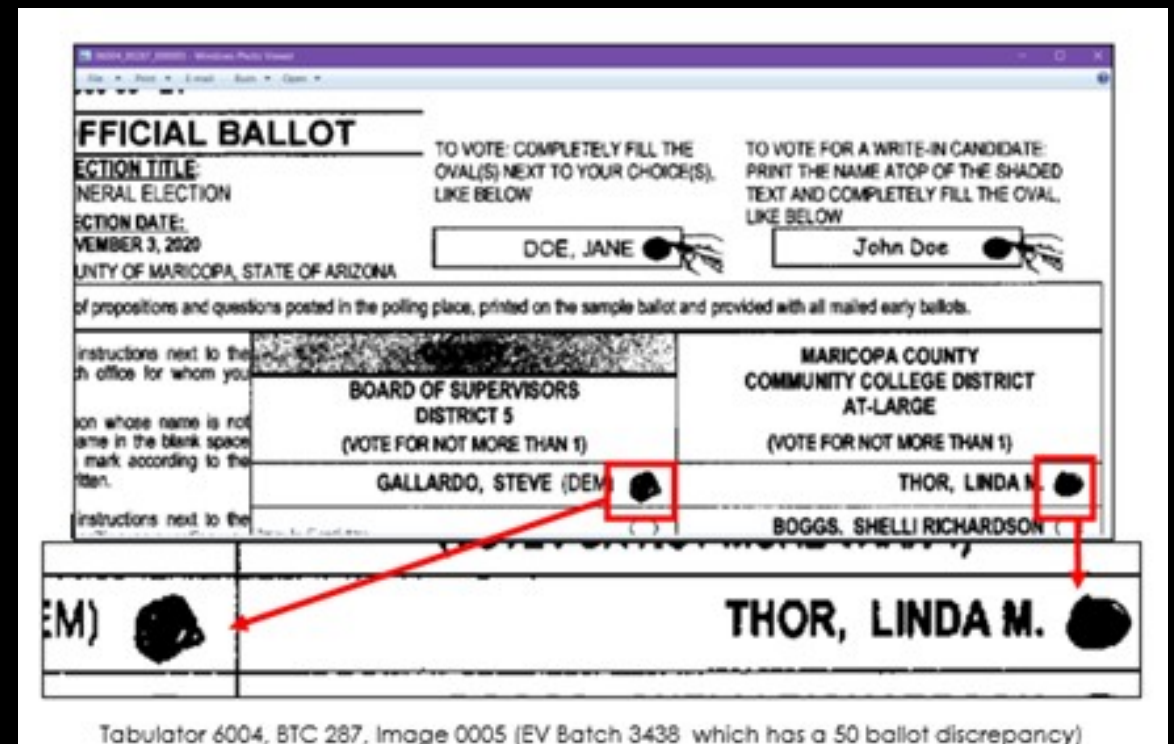
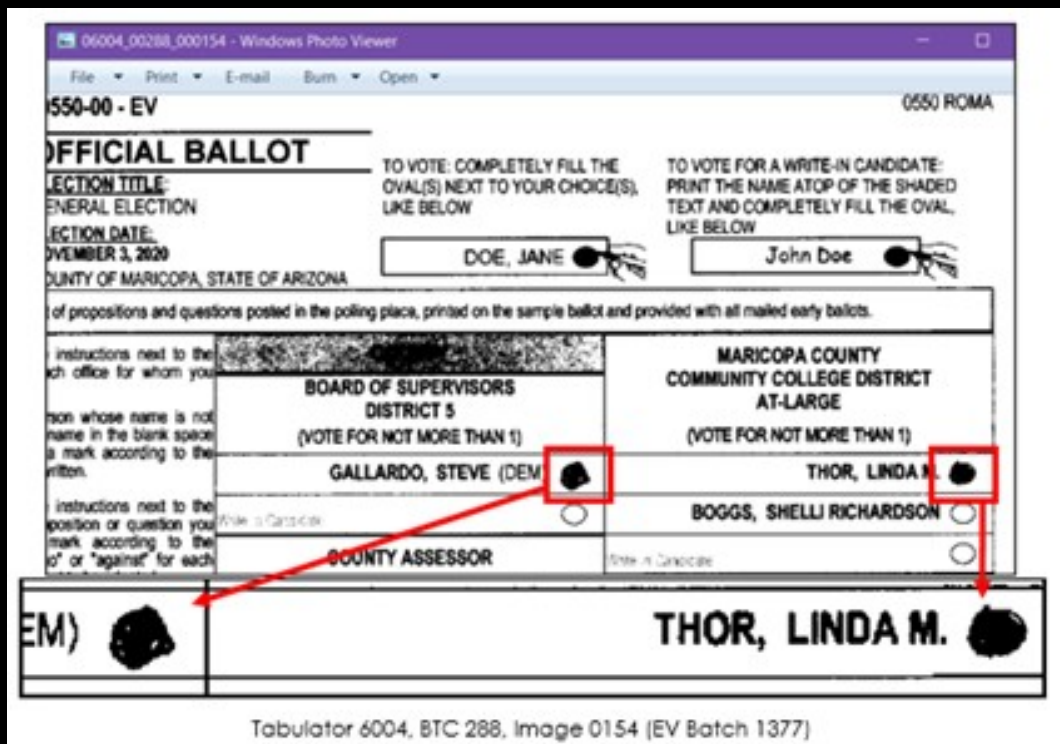
Tally Results - (Based on DSD)

| | Trump | Biden | Jorgens on | Write In / Over / Under | Total |
|---|---------|-----------|---------------|-------------------------------|-----------|
| Maricopa County Forensic Audit | 995,404 | 1,040,873 | 31,501 | 20,791 | 2,088,569 |
| Official Maricopa County Canvass | 995,665 | 1,040,774 | 31,705 | 21,419 | 2,089,563 |
| DELTA | (261) | 99 | (204) | (628) | (994) |

* Slight difference in Presidential & Senate ballot totals are due to small differences in hand counts across 214 ballots

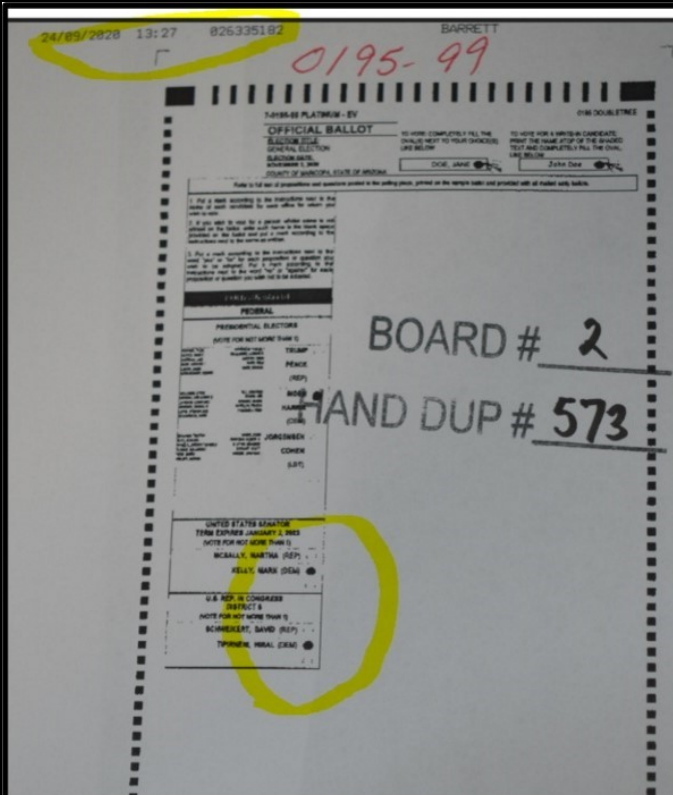
Findings

- At least a batch of 50 ballots was run through the tabulators twice.



Findings

- Several UOCAVA ballots have been double-counted



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0195-99

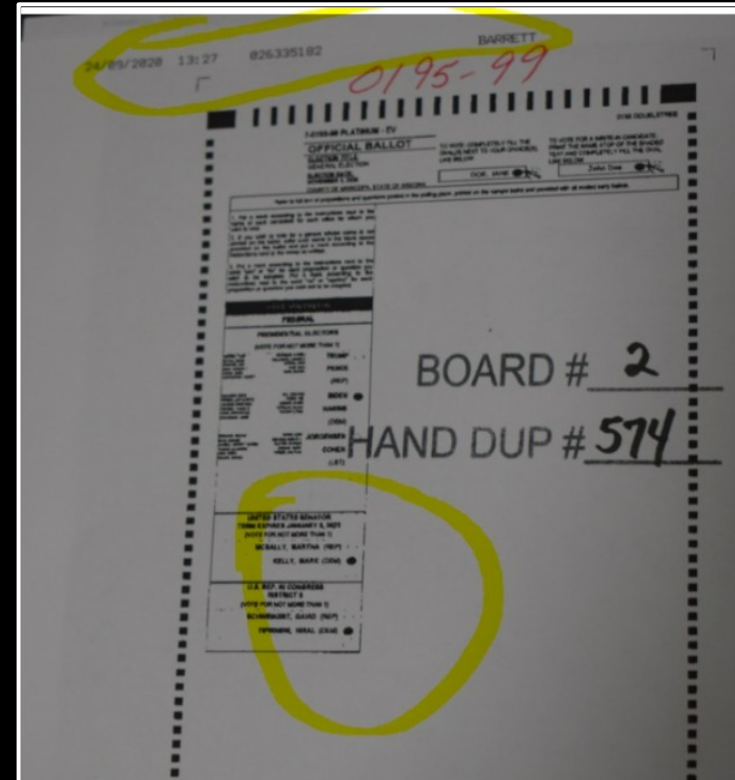
OFFICIAL BALLOT

BOARD # 2

HAND DUP # 573

UNITED STATES SENATOR
TERM EXPIRES JANUARY 3, 2013
NOTE FOR NOT MORE THAN 1
MCALLY, MARTHA (REP)
KELLY, MARK (DEM)

U.S. REP. IN CONGRESS
DISTRICT 8
NOTE FOR NOT MORE THAN 1
SCHWARTZ, DAVID (REP)
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Official Results





Official Results – MC Forensic Audit

Official Results - Background

- Official Canvass – Tallies of the ballots cast
 - Per candidate, per precinct, provisional, etc.
- VM55 Final Voted File – A list of all the people who cast a ballot in the election
 - Indicates method of voting and other details
- VM34 Full Voter File – A list of all people eligible to vote
 - Released on a monthly basis



Official Results – MC Forensic Audit

Definitions

- EV32 Early Voting Sents – A list of all the ballots mailed out
 - Includes the date mailed, the address mailed to, the ballot type, etc.
- EV33 Early Voting Returns – A list of all the ballots received for Early Voting
 - Includes the date returned and the method (Mail-in or in Person)



Official Results – MC Forensic Audit

Election System Balance

- If the following situation happened
 - 10 people mailed in a ballot
 - 10 people voted early in person
 - 10 people voted on election day in person
- You would expect
 - The Official Canvas has a total of 30 votes across all the candidates / precincts etc.
 - The VM55 should show a list of 30 people:
 - 10 people who voted via mail-in
 - 10 via Early Voting in Person
 - 10 via Election Day in person
 - EV32 Sents would show 10 ballots mailed
 - EV33 Returns would show 10 mail-in ballots received, and 10 mail-in ballots for EV In Person

None of these system balance.



Official Results - MC Forensic Audit

Findings

- Official Canvass has 3,432 more ballots cast than the list of people who show as having cast a vote (VM55)
- 9,041 mail-in voters show returning more ballots (EV33) than they were sent (EV32).
- 277 Precincts show in the Official Canvass as having more ballots cast than people who showed up to vote (VM55) for a total of 1,551 excess votes.
- There are 2,472 ballots shown in EV33 that don't have corresponding entries in the VM55, and only 2,042 ballots show as rejected in the Official Canvas for a discrepancy of 430.
- 397 mail-in ballots show as received (EV33) that never show as sent (EV32).
- 255,326 Early Votes show in the VM55 that do not have a corresponding EV33 entry.

Voters Who Moved





Moving- MC Forensic Audit

Moving - Background

- Individuals who voted were compared against a commercial database called Melissa to see who moved before the October 5th cutoff.

Melissa Personator

- Checks addresses associated with a user
- Shows prior and current addresses
- Tracks moves and move dates
- Tracks date-of-birth and death dates



Moving - MC Forensic Audit

Findings

- 23,344 voters voted via mail-in ballot even though they show in Melissa as having moved, and no one with the same last name shows as living at the address.
- 2,382 voters voted in-person even though they show in Melissa as having moved out of Maricopa County.
- 2,081 voters moved out-of-state during the 29 days before the election and were given a full ballot instead of a presidential-only ballot.

Voter Rolls





Official Results - MC Forensic Audit

Voter Rolls - Background

- Registration dates do not generally change unless to correct a mistake.

Thank you for your questions.

Are there any circumstances in which someone's registration date can change?

Generally, a voter's date of registration does not change outside of correcting a mistake. The date of registration is the date where the voter first registered to vote in in the county, while any updates to a voter's registration is tracked separately.

The only time a voter may have two dates of registration is if their registration has previously been cancelled and the voter registers again. The original record could be cancelled for a variety of reasons, including death of the voter, voter request, or the voter has moved outside Maricopa County. Only the latest voter registration record is considered valid and a voter cannot use their cancelled record.



Official Results - MC Forensic Audit

Voter Rolls - Background

- AFFSEQ is a unique number found in the voter roll system that is associated with a single transaction to a single user.
 - That change transaction has an image to go along with it to reference the document that authorized the change.
 - AFFSEQ's should be unique and only happen once and definitely shouldn't be shared by users.
- A.R.S. 16-152 requires that complete names be used.

On Aug 30, 2021, at 11:52 AM, voterinfo - RISCX <voterinfo@risc.maricopa.gov> wrote:

Good morning [REDACTED]. The AFFSEQs refers to Affidavit sequence. Each transaction by a voter will result in an affidavit. The affidavit could be a modification to your registration such as address change, party change or an updated signature as an example. An affidavit identifier is also applied to the affidavit envelope, or a provisional ballot used during an election. These identifiers are unique to each transition and never repeated.

Findings

- Potentially as many as 5,047 individuals who voted in more than one county for up to 5,295 votes.
- 393 voters with incomplete names voted in the election.
- 198 individuals registered after the October 15th cutoff and voted in the election.
- 2,861 voters have shared an AFFSEQ number with another voter at some point.
- 282 potentially deceased voters voted in the election.
- 186 people potentially have duplicate voter IDs that both voted.

| Description | Number of voters |
|-------------------------------|------------------|
| Last name only | 15 |
| Last name is an initial only | 9 |
| No last name | 45 |
| First name is an initial only | 324 |
| Total | 393 |